

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[M.PHARM 0823]

**AUGUST 2023
(APRIL 2023 EXAM SESSION)**

Sub. Code: 2932

**M.PHARMACY DEGREE EXAMINATION
SEMESTER - I (PCI New Regulations 2016)
PHARMACEUTICS - MPH
PAPER II – DRUG DELIVERY SYSTEM**

Q.P. Code: 262932

Time : Three hours

Answer ALL Questions

Maximum : 75 Marks

I. Elaborate on:

(2 x 20 = 40)

1. Describe in detail the formulation approaches, evaluation and applications of transdermal drug delivery system.
2. Give a detailed account on the various polymers used in the formulation of sustained or controlled release drug delivery system.

II. Write notes on:

(7 x 5 = 35)

1. 3-D printing of pharmaceuticals.
2. Vaccine drug delivery system.
3. Barriers to protein and peptide drug delivery.
4. Factors affecting gastro retention of oral dosage forms.
5. Chemically activated drug delivery systems.
6. Evaluation of Buccal films.
7. Ocular inserts.
